

S067117



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBW0905G12631-3G**Job Sheet 176773****Part No:** RBW0905G12631-3G**Job Qty:** 1 ea**Part Name:** Safety Joint Assembly**Part Weight:** 0 lbs**Status:** Completed**Priority:** Medium**Job Created:** 4/30/18**Job Tracking No:****Due Date:** 4/30/18**Created By:** Michelle Gagnon-Donovan**Type:** SOLD**Description:****Note:** DWG RBW0905G12631-3G Rev 7 IPP Rev A 18.01.09 New issue DP verify DD**Ship Via:****Bill of Materials****Job Routing**

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	1 pcs		4/30/18	0.00	0.00	Purchasing		Chaf. 18/4/30
110	Packaging	1 pcs		4/30/18	0.00	0.00	Packaging2		Chaf. 18/4/30
120	QC	1 pcs		4/30/18	0.00	0.00	QC6		38
130	Packaging	1 pcs		4/30/18	0.00	0.00	Packaging3		9-89
140	QC21-FG	1 Ea		4/30/18	0.00	0.00	QC21		Chaf. 18/4/30

Part Op 100 - Issue P/O: 039045 MANUFACTURE RBW0905G12631-3G AS PER DWG Supplier: METEC Certificate of Descriptions: conformity is required

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MAY 02 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
RBW0905G12631-3G	Safety Joint Assembly	1 Ea (1 ea)	100-Purchasing	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	RBW0905G12631-3G	1	0	1
Allocated Container Detail				
Qty	Container No	Location	Init	
1	S067114	purchasing		

Part Specifications

Specifications could not be found.

Plex 5/1/18 7:59 AM Dart.Gagnon.Michelle



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0
Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

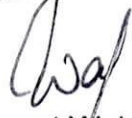
SHIPPED TO:

same

Quantity	Part Number	Part Name	P.O. Number
1	RBW0905G10331-3G-03P Rev2	Tow Bar (Flir) – Rear Assembly	39045

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.


Shigi Walz

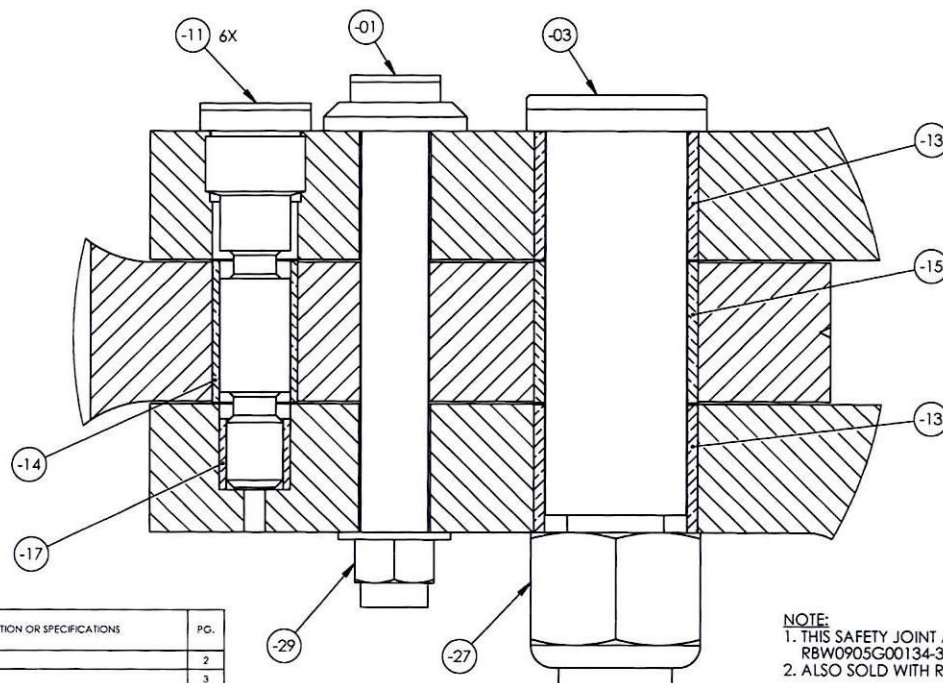
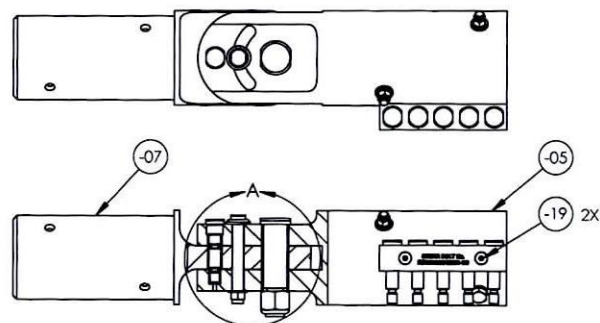
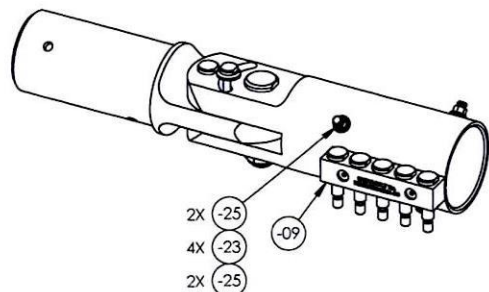
Vankleek Hill, April 30, 2018

DAS
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APR 30 2018

part rec'd from supplier assembled.

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DETAIL A
SCALE 1.5 : 1

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		DELETED -11 FROM DWG., MADE REFERENCE IN BOM FOR -11 TO SEE RBW0905G12351-3G.	4/28/10	RJC	
1A		REMOVED PAGE 2, RE-NUMBERED PAGES & BOM PER W.P.	4/28/10	RJC	
2		CORRECTED PG. 1 ASSEMBLY VIEW, UNIT WAS MIRRORED THE WRONG DIRECTION. ADDED -14 BUSHING, CHD -03 HEAD DIA. FROM Ø1.182 TO Ø1.12, AND ADDED .125 TO THREAD LENGTH FOR INTLOCK NUT.	5/31/10	WP	RW
3		-09 CHD P/N FROM RBW0905G12251-3G TO RBW0905G12351-3G, REMOVED -11 FROM DWG., & MADE A SEPARATE FILE FOR THIS PART RBW0905G12351-3G, PER W.P.	9/3/10	RJC	
4		SEPERATED PARTS TO 1 PART PER SHEET -07 ADDED FIT TOL TO Ø2.790 DIM	1/2/12	BIM	SE
5		UPDATED SHEET FORMATS. CHD NAME WAS "SAFETY JOINT ASSEMBLY" IS "SAFETY PIN, TOWING/PUSHING". -14 CHD B/O INFO WAS REID #GO-436 IS GURLOCK #MD1020DU. -17 CHD B/O INFO WAS REID #GO-427 IS GURLOCK #MD0810DU. -29 CHG QTY. IN BOM WAS 3 IS 1.	12/20/13	CF5	
6	14-0204	ADDED NOTE 2 TO SHEET ONE. -03 CHD RAW MATERIAL SIZE WAS Ø1-1/4 IS Ø1-1/8. -05 ADDED ENGRAVE T/N, S/N, MADE IN USA NOTE. -07 ADDED MISSING 45° DIM. -14, -17, 21, -23 CHD B/O INFO. -31 DELETED.	10/31/2014	RJC	JAG
7	15-0027	-01, -03 CHD MATERIAL WAS 4140 Q&T IS 4140 Q&T/4142 Q&T.	1/30/2015	RJC	JAG

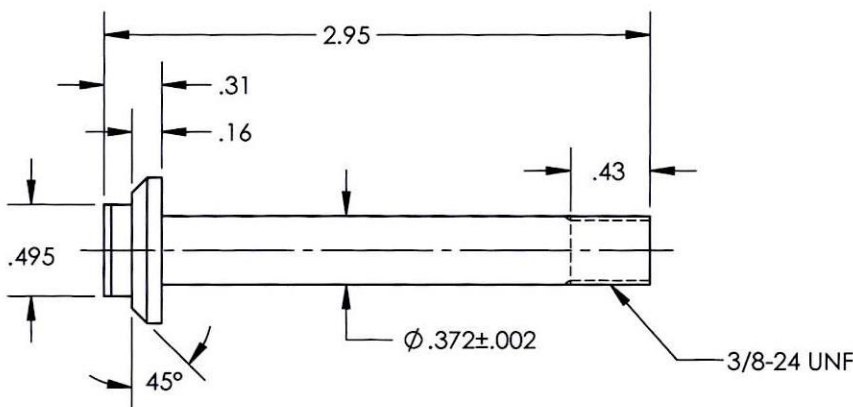
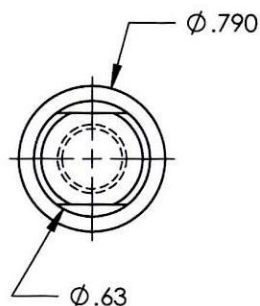
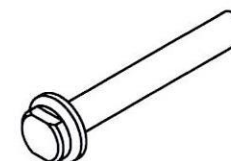
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-01	1	PIVOT LOCK BOLT	4140 Q&T/4142 Q&T		2
			-03	1	PIVOT BOLT	4140 Q&T/ 4142 Q&T		3
			-05	1	TONGUE PIVOT	6061		4
			-07	1	DOLLY PIVOT	6061		5
			-09	1	PIVOT SHEAR BOLT HOLDER	6061		6
			-11	6	PIVOT SHEAR BOLT	6061	#RBW0905G12351-3G	1
			-13	2	BUSHING	BRONZE	Ø20mm ID. X 18mm (MCMASTER-CARR #6679K21) MODIFIED	7
		B/O	-14	1	BUSHING	BRONZE	Ø10mm ID. X 20mm APPLIED INDUSTRIES #1020DU	1
		B/O	-15	1	BUSHING	BRONZE	Ø20mm ID. X 20mm (MCMASTER-CARR #6679K21)	1
		B/O	-17	1	BUSHING	BRONZE	Ø8mm ID. X 10mm APPLIED INDUSTRIES #0810DU	1
		B/O	-19	2	FLAT SOCKET HEAD CAP SCREW	STEEL	#10-32 UNF X 7/8 (MCMASTER-CARR #91263A547)	1
		B/O	-21	2	HEX HEAD CAP SCREW	PLATED STEEL	5/16-24 UNF X 3-5/8 SPENCER AIRCRAFT #ANS-35A	1
		B/O	-23	4	FLAT WASHER	PLATED STEEL	Ø5/16 (SPENCER AIRCRAFT #AN940-516)	1
		B/O	-25	2	LOCK NUT	PLATED STEEL	5/16-24 UNF (MCMASTER-CARR #95307A600)	1
		B/O	-27	1	LOCK NUT	PLATED STEEL	5/8-18 UNF (MCMASTER-CARR #97135A275)	1
		B/O	-29	1	LOCK NUT	PLATED STEEL	3/8-24 UNF (MCMASTER-CARR #95307A700)	1

NOTE:
1. THIS SAFETY JOINT ASSEMBLY ATTACHES TO RBW0905G00134-3G TOW DOLLY.
2. ALSO SOLD WITH RBW0905G10331-3G.

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G	REV 7
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES XXX ± .005 FRACTIONS ± 1/8 XX ± .01 ANGLES ± 5° X ± .1 1. BREAK ALL SHARP EDGES .015 ± 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	DRAWN BY: PERRITT APPROVED <i>D. Med</i> TREAT FINISH SPEC USED ON MODEL AGUSTA AW139
SCALE 1:4	DATE 2/12/2010
SHEET 1 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
7	15-0027	-01 CH'D MATERIAL WAS 4140 Q&T IS 4140 Q&T/4142 Q&T.	1/30/2015	RJC	JAG



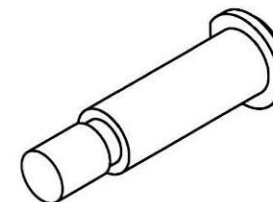
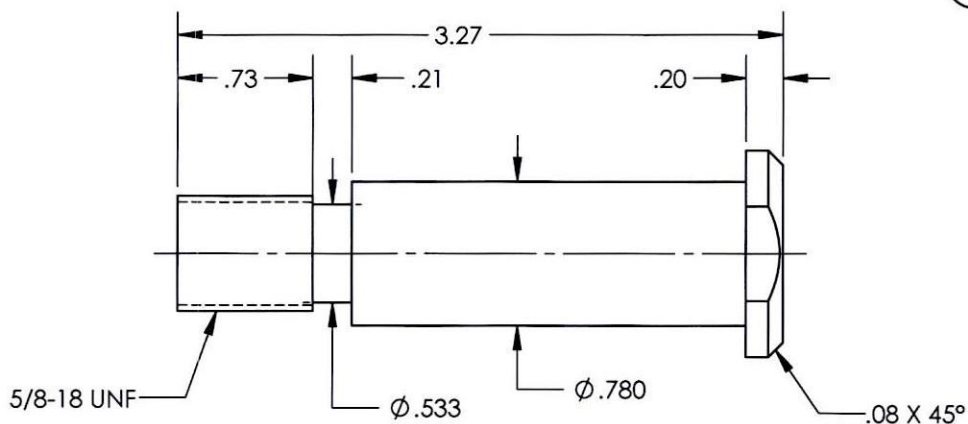
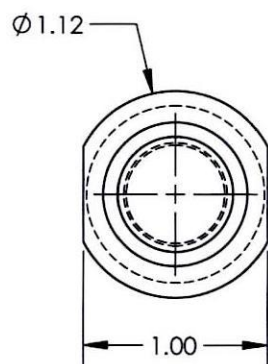
(-01)

PIVOT LOCK BOLT

DART AEROSPACE	
TITLE SAFETY PIN TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-01	REV 7
MAT'L 4140 Q&T/4142 Q&T	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weir</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH
.X ± .1	NICKEL PLATE
ANGLES ± 5°	SPEC MIL-P-6859
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AGUSTA AW139
SCALE 1:1	DATE 2/12/2010
SHEET 2 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2		-03 CH'D HEAD DIA. FROM Ø1.182 TO Ø1.12, & ADDED .125 TO THREAD LENGTH FOR NYLOCK NUT.	5/31/10	WP	RW
7	15-0027	-03 CH'D MATERIAL WAS 4140 Q&T IS 4140 Q&T/4142 Q&T.	1/30/2015	RJC	JAG



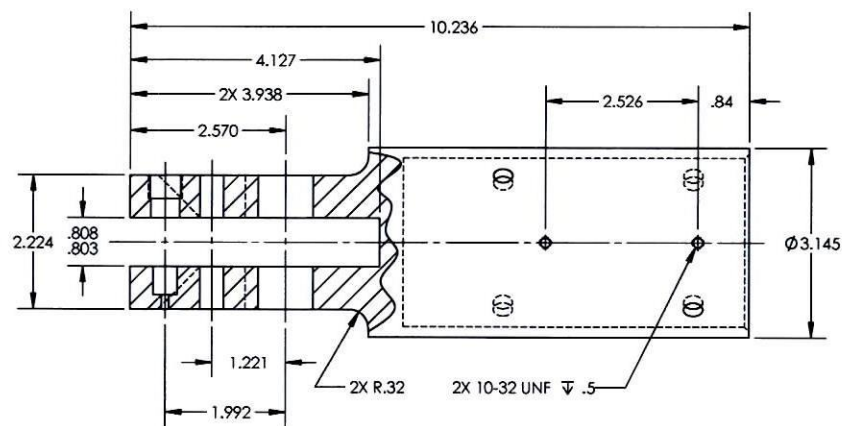
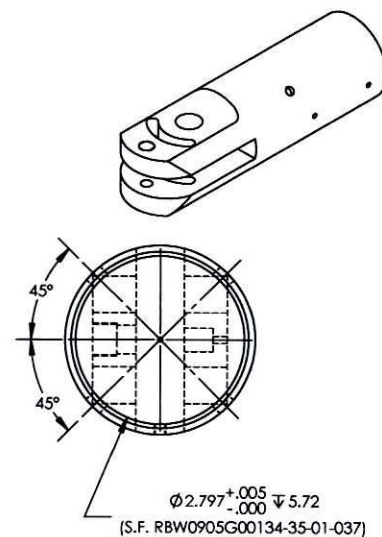
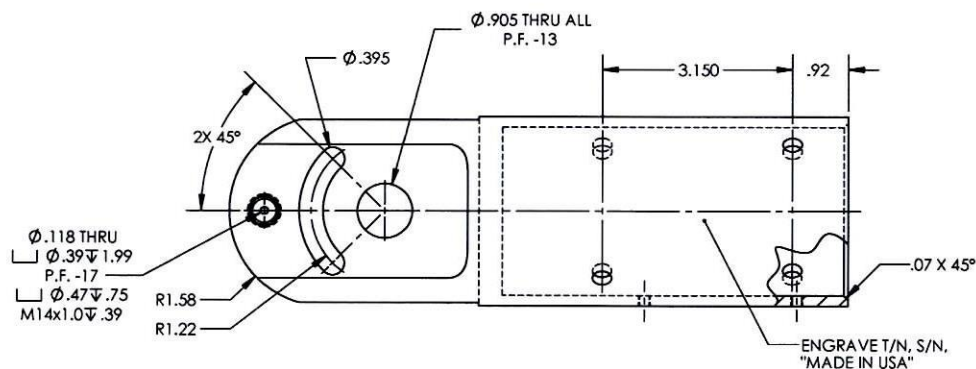
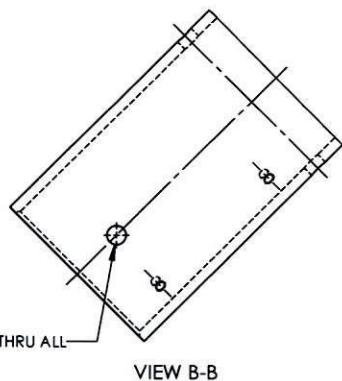
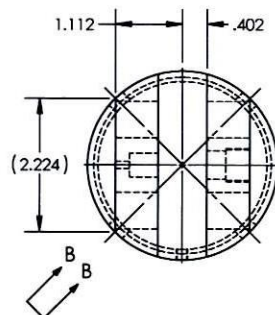
(-03)

PIVOT BOLT

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-03	REV 7
MAT'L 4140 Q&T/ 4142 Q&T	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Wed</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH NICKEL PLATE
.X ± .1	SPEC MIL-P-6859
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AGUSTA AW139
SCALE 1:1	DATE 2/12/2010 SHEET 3 OF 7

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
6	14-0204	-05 ADDED ENGRAVE I/N, S/N, MADE IN USA NOTE.	10/31/2014	RJC
			APPROVED	JAG



(-05)
TONGUE PIVOT

DART AEROSPACE	
TITLE SAFETY PIN, TOWING/PUSHING	
DWG NO. RBW0905G12631-3G-05	REV 7
MAT'L 6061	DRAWN BY: PERRITT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED: <i>P. Perritt</i>
.XXX ± .005	FRACTIONS ± 1/8
.XX ± .01	ANGLES ± 5°
.X ± .1	FINISH CLEAR ANODIZE
1. BREAK ALL SHARP EDGES .015 x 45°	SPEC MIL-A-8625F, TYPE II, CLASS I
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AGUSTA AW139
SCALE 1:2	DATE 2/12/2010
SHEET 4 OF 7	

Michelle GagnonDonovan

From: Robert Aboud
Sent: Monday, April 30, 2018 4:37 PM
To: Michelle GagnonDonovan
Cc: Linda Lacelle
Subject: FW: RBW0905G10331-3GP
Attachments: Tow-Bar-Flir-Installed.pdf; RBW0905G12631-3G rev 7.PDF; RBW0905G00134-3G-01 rev 5.PDF; RBW0905G10331-3G-03 rev 2.PDF

FYI

Rob Aboud

Director of Supply Chain

DART AEROSPACE

T 1-613-632-5200 Ext.244

M 1-514-979-6138

www.dartaerospace.com



From: Robert Aboud
Sent: Monday, April 30, 2018 4:18 PM
To: Chantal Chartrand <cchartrand@dartaero.com>
Cc: Jason Leroux <jleroux@dartaero.com>
Subject: FW: RBW0905G10331-3GP

FYI

Rob Aboud

Director of Supply Chain

DART AEROSPACE

T 1-613-632-5200 Ext.244

M 1-514-979-6138

www.dartaerospace.com



From: Michael Lee
Sent: Tuesday, February 13, 2018 5:38 PM
To: Robert Aboud <raboud@dartaero.com>
Cc: Vanessa Morel <vmorel@dartaero.com>
Subject: RE: RBW0905G10331-3GP

Hey Rob,

RBW0905G10331-3G is a pick kit that includes the following:

- RBW0905G12631-3G

- RBW0905G00134-3G-01
- RBW0905G10331-3G-03

All drawings are attached.

If the customer has ordered a complete tow bar kit they would need all items mentioned above to be supplied.

Hope that helps,

Mike

From: Robert Aboud
Sent: Tuesday, February 13, 2018 5:03 PM
To: Michael Lee <mlee1@dartaero.com>
Cc: Vanessa Morel <vmorel@dartaero.com>
Subject: RBW0905G10331-3GP

Mike,

Got an order for this one

But the only drawing I see has a -03

Rob Aboud
Director of Supply Chain
DART AEROSPACE
T 1-613-632-5200 Ext.244
M 1-514-979-6138
www.dartaerospace.com





20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 metec@metec.ca

CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ont.
K6A 1K7

SHIPPED TO:

same

Quantity	Part Number	Part Name	P.O. Number
1	RBW0905G10331-3G-03P	Tow Bar (Flir) – Rear Assembly	39045
1	RBW0905G12631-3G	Safety Joint Assembly	39045
1	RBW0905G00134-3G-01	Tow Dolly Assembly	39045

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

A handwritten signature in black ink, appearing to read "Shigi Walz".

Shigi Walz

Vankleek Hill, April 30, 2018